



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,668	02/09/2006	Xiangyang Yin	B123420001	4007

3000 7590 06/14/2007
CAESAR, RIVISE, BERNSTEIN,
COHEN & POKOTILOW, LTD.
11TH FLOOR, SEVEN PENN CENTER
1635 MARKET STREET
PHILADELPHIA, PA 19103-2212

EXAMINER

STERRETT, JEFFREY L

ART UNIT	PAPER NUMBER
----------	--------------

2838

MAIL DATE	DELIVERY MODE
-----------	---------------

06/14/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/567,668

Applicant(s)

YIN, XIANGYANG

Examiner

Jeffrey L. Sterrett

Art Unit

2838

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 February 2006 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 7/11/06.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.
2. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
4. Claims 1-3 are objected to because of the following informalities.

Claims 1-3 are improper since in line 12 of claim 1, lines 2, 3, and 5 of claim 2, and line 3 of claim 3 "said resistor" lacks proper antecedent basis since numerous resistors have been recited. It is suggested that the resistors be initially introduced as --a first resistor--, --a second resistor--, etc. so that they can be clearly and distinctly referred back to later. It is also noted that in line 12 of claim 1 "the said" should simply be --the--.

Claim 3 is confusing since resistor R1 has already been introduced in claim 1 however it is re-introduced in line 2 as part of the soft start loop. It is suggested that

claim 3 mimic claim 2 in reciting that "the resistor" R1 is simply part of the soft start loop by substituting ~~the~~ for "a".

Appropriate correction is required.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 and 2 are rejected under 35 U.S.C. § 103(a) as being unpatentable over prior art figure 1 in combination with Hosoya (US 4,208,705).

Prior art figure 1 discloses an isolated type self-oscillating flyback converter as recited by claims 1 and 2 except for utilizing a soft start capacitor coupled to the connection node of the resistor divider R1/R2. Hosoya discloses as old and known in the art at the time of the invention utilizing a soft start capacitor (C2) coupled to the connection node (P3) of the resistor divider (R4 and R5) in an isolated type self-oscillating flyback converter. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the isolated type self-oscillating flyback converter of prior art figure 1 by utilizing a soft start capacitor coupled to the connection node of the resistor divider R1/R2 as taught by Hosoya in order to change the operating characteristics of the starting circuitry.

7. Claim 3 is rejected under 35 U.S.C. § 103(a) as being unpatentable over prior art figure 1.

Prior art figure 1 discloses an isolated type self-oscillating flyback converter as recited by claim 3 except for utilizing an inductor coupled between the resistors of resistor

divider R1/R2. Official notice is taken that utilizing a series connected inductor to limit current was an old and known expedient in the power supply art at the time of the invention. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the isolated type self-oscillating flyback converter of prior art figure 1 by utilizing an inductor coupled between the resistors of resistor divider R1/R2 in order to change the operating characteristics of the starting circuitry by limiting the current through the starting circuitry.

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

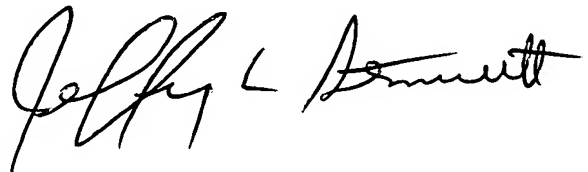
Shono (US 4,361,865), Marinus (US 4,486,822), Onda et al (US 4,700,280), Nakajima (US 4,937,724), Nakao et al (US 6,072,702), and Kitano (US 6,178,100) are cited to show isolated type self-oscillating converters with starting circuitry old and known in the art at the time of the invention.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 7:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karl D. Easthom can be reached on (571) 272-1989. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeffrey L. Sterrett
Primary Examiner
Art Unit 2838

A handwritten signature in black ink, appearing to read "Jeffrey L. Sterrett", is written over the typed name and title.